BRUHATH BANGALORE MAHANAGARA PALIKE

PROJECT DIVISSION YELHANKA ZONE

NAME OF WORK :- Providing Water Supply UGD and Other Developmental works to Allalasandra Swimming Pool in Ward No.04

DETAILED ESTIMATE

Sl. No.	Descriptions	Unit	No	L	B	D	Quantity	Rate	Amount in Rs
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., including all lead and lift complete as per the direction of engineer in charge(P.47, I. 9.4) PRED.SR 2012-13								
			1	2			2		
	Basic Rate	1882.00							
	Area Weightage 3%	56.46					2	1938.46	**3876.92**
	Total	1938.46							
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) including all lead and lift complete as per the direction of engineer in charge 0 to 50m Page no. 46 / I. 9.1 PRED SR								
			2	50			100	315.18	**31518**
	Basic Rate	306.00							
	Area Weightage 3%	9.18							
	Total	315.18							
3	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) including all lead and lift complete as per the direction of engineer in charge 50 to 100m Page no. 46 / I. 9.1 PRED SR								
			2	50			100	412.00	**41200**
	Basic rates	400.00							
	Area Weightage 3%	12.00							
	Total	412.00							
4	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) including all lead and lift complete as per the direction of engineer in charge 100 to 150 Page no. 46 / I. 9.1 PRED SR								
			2	50			100	458.35	**45835**
	Basic rates	445.00							
	Area Weightage 3%	13.35							
	Total	458.35							
5	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) including all lead and lift complete as per the direction of engineer in charge 150 to 200 Page no. 46 / I. 9.1 PRED SR								
			2	50			100	484.10	**48410**
	Basic rates	470.00							
	Area Weightage 3%	14.10							
	Total	484.10							
6	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) including all lead and lift complete as per the direction of engineer in charge 200 to 250m Page no. 46 / I. 9.1 PRED SR								
			2	50			100	560.32	**56032**
	Basic rates	544.00							

Descriptions	Unit	No		L	B	D	Quantity	Rate	Amount in Rs
Weightage 3%	16.32								
Total	560.32								
Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap									
		2	50				100	600.49	**60049**
Basic rates	583.00								
Extra Weightage 3%	17.49								
Total	600.49								
Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a protection end (including of all taxes) including all lead and lift complete as per the direction of engineer in charge)									
		2	30				60	1364.75	**81885**
Basic rates	1325.00								
Extra Weightage 3%	39.75								
Total	1364.75								
Providing 250mm dia PVC Pipe 6kg/cm including all lead and lift complete as per the direction of engineer in charge BWSSB									
		2	6				12	1095.92	**13151.04**
Basic rates	1064.00								
Extra Weightage 3%	31.92								
Total	1095.92								
Providing and fixing 175mm Borewell Cap including all lead and lift complete as per the direction of engineer in charge page no 111 it no 85 pred 12-13 sr									
		1	2				2	103.00	**206**
Basic rates	100.00								
Extra Weightage 3%	3.00								
Total	103.00								
Supply of submersible Three phase pumps 5HP 15Stage .Item no 5/3.7 Page no XLIV									
		1	2				2	32205.60	**64411.2**
Basic rates	29820.00								
8% weightage	2385.60								
Total	32205.60								
Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 (1x3x4.00 Sqmm PVC cable including all lead and lift complete as per the direction of engineer in charge									
		2	250				500	144.20	**72100**
Basic rates	140.00								
Extra Weightage 3%	4.20								
Total	144.20								
Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job Necessary and specials with be supplied by the board at the site free of cost) including all lead and lift complete as per the direction of engineer in charge									
		1	2				2	2060.00	**4120**
Basic rates	2000.00								
Extra Weightage 3%	60.00								
Total	2060.00								
Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13-710-4 including all lead and lift complete as per the direction of engineer in charge									
		1	2				2	1779.84	**3559.68**

	Descriptions	Unit	No	L	B	D	Quantity	Rate	Amount in Rs
	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. Item no 13.81.3 PWD SR 2018-19								
			2	2			4	226.80	**907.2**
	Basic rates	210.00							
	8% weightage	16.80							
	Total	226.80							
	Providing and fixing Polyethene-Aluminium-Polyethene(PE-AL-PE)Composite Pressure Pipes confirming to 15450 duly ISI								
			2	225			450	569.16	**256122**
	Basic rates	527.00							
	8% weightage	42.16							
	Total	569.16							
	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). including all lead and lift complete as per the direction of engineer in charge 40mmm Dia Item no 13.87.5 Page no 99 PWD								
	Bore well to OHT		1		98		98		
	Wash point		1		13		13		
							111	315.36	**35004.96**
	Basic rates	292.00							
	8% weightage	23.36							
	Total	315.36							
	Fabrication supply an erecting MS tubular trusses of all spans as per approved drawing and design with prefabricated Steele applications quality material and are durable, reliable and corrosion and abrasion resistant . Welding shall confirm to latest structural welding code.quality shall be various parameters like shape size design gauge polish . The entire trusses is anchored in RCc column by using 4 no of MS anchor bolts at each support with 10mm thick Base plate and shoe plate . The work includes cutting, straightening placing in position of MS pipes and welding wherever necessary and applying one coat of redoxide primers coat to all the members including all the cost of all materials labor charges and hire charges of machinery for cutting welding grinding and erection equipments with all lead and lift , transportation etc complete as per specifications Item no 7.29 page no 43 PWD SR 2018-19								
						Total	Unit	Qty		
	Truss pipes		2	11	5.2	114.4	18.14	2075.216		
	support pipes		1	11	0.6	6.6	10.25	67.65		
			1	11	0.55	6.05	10.25	62.0125		
			1	11	0.5	5.5	10.25	56.375		
			1	11	0.45	4.95	10.25	50.7375		
			1	11	0.4	4.4	10.25	45.1		
			1	11	0.35	3.85	10.25	39.4625		
			1	11	0.3	3.3	10.25	33.825		
			11	5	1.2	66	10.25	676.5		
			1	11	1.9	20.9	10.25	214.225		
			1	11	1	11	10.25	112.75		
	Base plates		4	11	0.6	**0.3**	**188.4**	**1492.13**		
	side plates for holding the stub pipes		6	11	0.3	0.3	23.55	**139.89**		
	Plates above the base plate		2	11	0.3	0.55	43.17	**156.71**		
	Grouting bolts 75mm		6	11	0.75	2	2	132		
	45mm		6	11	0.45	2	2	132		
	Purlins		1	7	52	364	17.22	6268.08		
	Stub tublar pipes 220mmdia		2	11	2.2	48.4	41.8	2023.12		
	Extra pipea both end sides		3	2	4.8	28.8	8.5	244.8		
			2	6	2.35	28.2	8.5	239.7		
	Cleat angles [illegible]		7	11	0.1167	8.9859	15	134.7885		
								14397.0641	119.88	**1725920.044**
	Basic rates	111.00								
	8% weightage	8.88								
	Total	119.88								

	Descriptions	Unit	No	L	B	D	Quantity	Rate	Amount in Rs
	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. with all lead and lift and directions of the Engineer-In-charge of the work								
	Gallery roofing		1	1	52	6		312.00		
							Qty	312.00	743.04	**231828.48**
	Basic rates	688.00								
	3% weightage	55.04								
	Total	743.04								
20	Providing Skirting, Dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over roughj plaster surface (excluding cost of rough plastered surface which should be measured and paid separetely) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. 15x15 cms 6mm thick including all lead and lift complete as per the direction of engineer in charge.item no14.41.1 page no 108 PWD SR 2018-19								
	Shower area								
	Pool Area side		1		2.10		2.70	5.67		
	Retaing wall side		1		14.10		2.70	38.07		
	Front side		1		5.10		2.90	14.79		
	Inside ladies change rooms									
			1		5.70		1.60	9.12		
			1		5.40		1.60	8.64		
			1		1.50		1.60	2.40		
			1		5.90		1.60	9.44		
			8		0.10		1.60	1.28		
			1		3.85		1.60	6.16		
			1		6.00		1.60	9.60		
			1	7	0.70		1.60	7.84		
			1		6.45		1.60	10.32		
	inside toilets rooms		8	2	1.45		1.60	37.12		
			8	2	1.45		1.60	37.12		
	Deduction									
	openings		-2	8	0.7		1.6	-17.92		
	Gents change room									
			1		5.60		**1.60**	8.96		
			1		3.55		**1.60**	5.68		
			1		3.55		**1.60**	5.68		
			1		6.25		**1.60**	10.00		
			1		5.15		**1.60**	8.24		
			1		6.45		**1.60**	10.32		
			1		3.70		**1.60**	5.92		
			1		5.95		**1.60**	9.52		
			1		4.35		**1.60**	6.96		
			1		12.30		**1.60**	19.68		
			24		0.10		**1.60**	3.84		
			1		7.30		**1.60**	11.68		
			12	2	1.40		**1.60**	53.76		
			12	2	1.40		**1.60**	53.76		
			1.0		1.80		**1.60**	2.88		
			1.0		6.10		**1.60**	9.76		
			24.0		0.10		**1.60**	3.84		
	Deduction									
	Window		-1.0		2.05		1.05	0.00		
	doors opening		-12.0		0.70		1.60	-2.15		
								-13.44		
	Basic rates	1271.00					Qty	394.5	1372.7	**541573.74**
	3% weightage	101.68								

It. No	Descriptions	Unit	No		L	B	D	Quantity	Rate	Amount in Rs
	[illegible]l	1372.68								
21	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides, beams and									
			1	10	0.75		2.4	18.00		
								18.00	6717.60	**120916.8**
	Pg No 39 It No 7.17.2 of PWD SR 2018-19									
	Basic rate	*6220.00*								
	Area Weightage 8%	*497.60*								
	Final Rate	*6717.60*								
22	KSRB 7.14 : Providing, fabricating, assembling and fixing in position aluminium partitions using sections in combination of plain, single grove and double grove as per requirements for the frames of overall size 101.6mm x 44.45mm, 3.18mm.thick having section weight, plain sections 2.40kg/m single grove section 2.541kg/m. and double grovesection 2.683 kg/m and bottom 46 kg/m; aluminium louvres of size 77.6mmx27.6mm 1.7mm. thick section weight 0.483kg/m; bottom portions provided with 12mm. thick prelaminated sheet both side of approved colour lamination exterior grade; aluminium sections of mat finish or glossy finish using section, spacing of vertical member shall not exceed 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames, the assembled frame should be stiffened with corner angles stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C.columns or masonry on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistling and making good with cement mortar to match the surface, providing and fixing bottom panel filled with the materials to a height of 0.9m. from floor level; and 5.5mm. thick plain glass for middle portion viz., 0.9m. to 2.13 m. and top panel with lower sections, the glass and panels fitted with glazing clips of 19mmx17.3mm. with thickness of 0.9mm. weight 0.124kg/m; aluminium sections pre-treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable size holes and fixing with cement mortar, with necessary opening for fixing of doors of standard size (excluding cost of door opening) all the frame should be throughly cleaned free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of									
				10	6		3.4	204.00	5178.60	**1056434.4**
	Pg No 37 It No 7.14.2 of PWD SR 2018-19									
	Basic rate	*4795.00*								
	Area Weightage 8%	*383.60*								
	Final Rate	*5178.60*								
										4495061.46
								Total		**4495061.46**
								12% GST		**539407.38**
	Miscellaneous other accessories etc.									**15531.17**
								Grand total Amount		**5050000.00**
Certificate.										

1 The workspot was inspected and work is found to be necessary.

2 The area comes within the Brihat Bangalore Mahanagara Palike limits.

3 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19

4 The provisions made in the estimate are necessary and essential.

5 PRED SR 2012-13

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92
4/11/19

Administrative Approval

Accorded For Rs. 50.50 Lakhs
Head of A/C P-0190
CER NO : 37 Dt: 13/12/19

E.E. (Project)

Technical Sanction

Accorded For R.S.S. Works Chemely
Head of A/C P0190
CER NO : 179 Dt: 06.11.2019

TA

CE (YNN).